

## EAST Search History

| Ref # | Hits | Search Query  | DBs                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--------------------|------------------|---------|------------------|
| L1    | 0    | ("20040241748").PN.   | USPAT;<br>USOCR    | OR               | OFF     | 2008/01/04 13:15 |
| L2    | 1    | "20040241748"   | US-PGPUB;<br>USPAT | OR               | OFF     | 2008/01/04 14:42 |
| L3    | 5793 | image and pixel and (detect or detection or measure or measuring or measured) and (capillary or meniscus)                 | US-PGPUB;<br>USPAT | OR               | OFF     | 2008/01/04 13:30 |
| L4    | 727  | image and pixel and ((detect or detection or measure or measuring or measured) with (capillary or meniscus))              | US-PGPUB;<br>USPAT | OR               | OFF     | 2008/01/04 14:05 |
| L5    | 16   | image and pixel and ((detect or detection or measure or measuring or measured) with (capillary or meniscus) with (noise)) | US-PGPUB;<br>USPAT | OR               | OFF     | 2008/01/04 13:41 |
| L6    | 177  | L4 and ((detect or detection or measure or measuring or measured) with noise)   | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 14:05 |
| L7    | 161  | L6 not L5   | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 14:07 |
| L9    | 0    | L7 and ((detect or detection or measure or measuring or measured) with noise with (substract or subtraction))             | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 14:06 |
| L10   | 3    | L7 and (noise with (substract or subtraction))  | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 14:06 |
| L11   | 49   | L7 and (noise with sample)  | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 17:01 |
| L12   | 2    | L11 and (wall with noise)   | US-PGPUB;<br>USPAT | OR               | OFF     | 2008/01/04 15:07 |
| L13   | 4    | (capillary with wall with noise) and (assay)  | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 15:07 |
| L14   | 5037 | (negative adj control) and capillary and image  | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 15:29 |
| L15   | 127  | ((negative adj control) same capillary) and image   | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 15:33 |
| L16   | 17   | ((negative adj control) same capillary) and image and pixel   | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 15:40 |
| L17   | 8    | L16 not @ay>"2003"  | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 15:35 |
| L18   | 16   | ((negative adj control) with noise) and image and pixel   | US-PGPUB;<br>USPAT | OR               | ON      | 2008/01/04 16:06 |

## EAST Search History

|     |       |   |                 |    |    |                  |
|-----|-------|---|-----------------|----|----|------------------|
| L19 | 13    | (capillary or tube) with (assay or measure or measuring or detect or detecting) with diffused with light          | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:09 |
| L20 | 1     | L19 and ((assay or measure or measuring or detect or detecting) with concentration)                               | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:07 |
| L21 | 7807  | (capillary or tube) same (assay or measure or measuring or detect or detecting) same image                        | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:09 |
| L22 | 16024 | ((capillary or tube) with (assay or measure or measuring or detect or detecting)) and image                       | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:10 |
| L23 | 1991  | ((capillary or tube) with (assay or measure or measuring or detect or detecting)) with image                      | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:16 |
| L24 | 1     | ((capillary or tube) with (assay or measure or measuring or detect or detecting)) with image with diffused        | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:10 |
| L25 | 45    | L23 and (diffused with light)   | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:11 |
| L26 | 424   | "L45" and concentration   | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:11 |
| L27 | 8     | L25 and concentration   | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:16 |
| L28 | 8     | L27 not @ay>"2003"  | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:11 |
| L29 | 268   | L23 and concentration   | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:16 |
| L30 | 74    | L29 and ((say or measure or measuring or detect or detecting) with concentration)                                 | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:25 |
| L31 | 20    | L29 and ((say or measure or measuring or detect or detecting) with concentration with image)                      | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:17 |
| L32 | 16    | L31 not @ay>"2003"  | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:27 |
| L33 | 3     | L32 and (scatter or scattering)   | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:23 |
| L34 | 288   | ((asay or measure or measuring or detect or detecting) with concentration with (scatter or scattering)) and image | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:28 |
| L35 | 146   | L34 and (fluorescence or fluorescent)   | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:27 |
| L36 | 104   | L35 not @ay>"2003"  | US-PGPUB; USPAT | OR | ON | 2008/01/04 16:27 |

## EAST Search History

|     |     |  |                    |    |     |                  |
|-----|-----|--|--------------------|----|-----|------------------|
| L37 | 76  | L36 and (tube or capillary)  | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 16:29 |
| L38 | 2   | L11 and meniscus   | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:02 |
| L39 | 530 | ((detect or detecting or measure or measuring or measured) with meniscus) and image  | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:03 |
| L40 | 120 | ((detect or detecting or measure or measuring or measured) with meniscus) same image   | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:03 |
| L41 | 85  | ((detect or detecting or measure or measuring or measured) with meniscus) with image   | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:07 |
| L42 | 60  | L41 not @ay>"2003"   | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:09 |
| L43 | 3   | L42 and (assay or assaying or biological)  | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:06 |
| L44 | 1   | L5 and meniscus  | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:06 |
| L45 | 35  | ((((detect or detecting or measure or measuring or measured) with meniscus) same (scatter or scattering or raman or fluorescence or fluorescent))) | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:08 |
| L46 | 24  | L45 not @ay>"2003"   | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 17:23 |
| L47 | 1   | ("6613212").PN.  | USPAT;<br>USOCR    | OR | OFF | 2008/01/04 17:24 |
| L48 | 1   | ("6515753").PN.  | USPAT;<br>USOCR    | OR | OFF | 2008/01/04 17:25 |
| L49 | 0   | ("(imagewithmeniscus)and(scatterorscattering)and(assayorassayingorbiological)").PN.  | USPAT;<br>USOCR    | OR | OFF | 2008/01/04 17:26 |
| L50 | 30  | ((image) same (scatter or scattering)) and (image with meniscus)   | USPAT              | OR | OFF | 2008/01/04 17:26 |
| L51 | 37  | ((image) same (scatter or scattering)) and (image with meniscus)   | USPAT              | OR | ON  | 2008/01/04 17:39 |
| L52 | 0   | L51 not @ay>"203"  | USPAT              | OR | ON  | 2008/01/04 17:27 |
| L53 | 32  | L51 not @ay>"2003"   | USPAT              | OR | ON  | 2008/01/04 17:27 |
| L54 | 1   | ((image) same (scatter or scattering)) and (artifact with meniscus)  | USPAT              | OR | ON  | 2008/01/04 17:39 |
| L55 | 0   | ((detect or detecting or detected ) same (scatter or scattering)) and (artifact with meniscus)   | USPAT              | OR | ON  | 2008/01/04 17:40 |

## EAST Search History

|     |        |   |                    |    |     |                  |
|-----|--------|---|--------------------|----|-----|------------------|
| L56 | 1      | ((detect or detecting or detected ) and (scatter or scattering)) and (artifact with meniscus)                 | USPAT              | OR | ON  | 2008/01/04 17:40 |
| L57 | 11     | ((detect or detecting or detected ) and (scatter or scattering)) and (noise with meniscus)                    | USPAT              | OR | ON  | 2008/01/04 18:14 |
| L58 | 1      | ("3797937").PN.   | USPAT;<br>USOCR    | OR | OFF | 2008/01/04 18:16 |
| L59 | 1      | ("5097135").PN.   | USPAT;<br>USOCR    | OR | OFF | 2008/01/04 18:18 |
| L60 | 1      | ("5827660").PN.   | USPAT;<br>USOCR    | OR | OFF | 2008/01/04 19:04 |
| L61 | 1      | ("4488812").PN.   | USPAT;<br>USOCR    | OR | OFF | 2008/01/04 19:05 |
| S1  | 8362   | ((raman or fluorescent or fluorescence or particle) adj (scatter or scattering)) or (molecular adj diffusion) | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 18:01 |
| S2  | 2973   | S1 and image  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 17:55 |
| S3  | 1028   | S2 and diffusion  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 17:58 |
| S4  | 1      | S2 and (subtract or subtracting)  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 17:59 |
| S5  | 7      | S1 and (subtract or subtracting)  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 17:59 |
| S6  | 882981 | (raman or fluorescent or fluorescence or particle) or (molecular adj diffusion)                               | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 18:01 |
| S7  | 8333   | S6 and (subtract or subtracting or subtracts or subtracted)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 18:07 |
| S8  | 370    | S6 and ((subtract or subtracting or subtracts or subtracted) with pixel)                                      | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 18:09 |
| S9  | 305    | S8 not @ay>"2003"   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/10 18:10 |
| S10 | 6821   | image and pixel and (assay or dna or nucleic or antibody)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/16 20:30 |
| S11 | 9      | S10 and (calibration with (subtract or subtracting))  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/16 20:30 |
| S12 | 51988  | image and (assay or dna or nucleic or antibody)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/16 20:30 |
| S13 | 42     | S12 and (calibration with (subtract or subtracting))  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/16 20:30 |
| S14 | 13     | S13 not @ay>"2003"  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/16 20:31 |
| S15 | 7      | S14 and sum   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/16 20:31 |

## EAST Search History

|     |        |  |                    |    |     |                  |
|-----|--------|--|--------------------|----|-----|------------------|
| S16 | 12     | S14 and (sum or total)   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/16 20:31 |
| S17 | 57125  | image and (assay or dna or nucleic or antibody)                        | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/18 18:40 |
| S18 | 1      | S17 and ((record or recording) with (spatial adj structure))           | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/18 18:41 |
| S19 | 3085   | S17 and ((record or recording) with (image))                           | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/18 18:41 |
| S20 | 743    | S19 and (calibrating or calibration)                                   | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/18 20:19 |
| S21 | 1      | "20040241748"  | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/18 20:19 |
| S22 | 452    | detection with chamber with transparent                                | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:18 |
| S23 | 173    | S22 and image  | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:18 |
| S24 | 785873 | detection ((image or imaging) with chamber with transparent)           | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:19 |
| S25 | 6      | detection same ((image or imaging) with chamber with transparent)      | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:23 |
| S26 | 103    | detection and ((image or imaging) with chamber with transparent)       | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:44 |
| S27 | 97     | S26 not S25  | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:25 |
| S28 | 33     | S27 and (transparent with sides)                                       | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:43 |
| S29 | 1      | ("6664528").PN.  | USPAT;<br>USOCR    | OR | OFF | 2007/03/19 02:43 |
| S30 | 154    | detection and ((viewing) with chamber with transparent)                | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:44 |
| S31 | 13     | detection with ((viewing) with chamber with transparent)               | US-PGPUB;<br>USPAT | OR | ON  | 2007/03/19 02:44 |
| S32 | 3258   | ((noise or artefact) with image) and (assay or biological)             | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 02:54 |
| S33 | 271    | ((noise or artefact) with image with sample) and (assay or biological) | US-PGPUB;<br>USPAT | OR | ON  | 2008/01/04 02:55 |